## **EXHIBIT D**

	Page 1
1	
2	IN THE UNITED STATES DISTRICT COURT
3	FOR THE SOUTHERN DISTRICT OF NEW YORK
4	Case No. 1:20-cv-01106-LGS
5	x
6	KEWAZINGA CORP.,
7	Plaintiff,
8	-against-
9	GOOGLE, LLC,
10	Defendant.
11	x
12	November 16, 2020
	10:11 a.m.
13	
14	
15	Remote Videotaped Deposition
16	of JEFFREY LUBIN, an Expert Witness in
17	the above-entitled action, located in
18	Princeton, New Jersey, taken Via Zoom
19	before Dawn Matera, a Shorthand Reporter
20	and Notary Public.
21	* * *
22	
23	
24	
25	Job No. CS4338777

	Page 2		Page 4
1	•	1	Lubin
2 3	APPEARANCES:	2	THE VIDEOGRAPHER: Good morning
4	STROOCK STROOCK & LAVAN LLP	3	We are going on the record at
_	Attorneys for Plaintiff	4	a.m. on November 16th, 2020. Please
5	180 Maiden Lane New York, New York 10038	5	note the microphones are sensitive and
6	(212)806-5400	6	may pick up whispering, private
7	By: SAUNAK DESAI, ESQ. sdesai@stroock.com	7	conversations and cellular
8	IAN DiBERNARDO, ESQ.	8	interference. Audio and video
	idibernardo@stroock.com	9	recording will continue until all
9		10	parties agree to go off the record.
10	DESMARAIS LLP	11	This is media number 1 of the
11	Attorneys for Defendant	12	video deposition of Dr. Jeffrey Lubin
12	101 California Street San Francisco, California 94111	13	taken by counsel for defendant in the
12	(415)573-1806	14	· · · · · · · · · · · · · · · · · · ·
13		l	matter of Kewazinga Corporation versus
14	By: EMILY CHEN, ESQ. echen@desmarais.com	15	Google, LLC filed in the United States
17	AMEET MODI, ESQ.	16	District Court for the Southern
15	emodi@desmarais.com	17	District of New York, case number
16	DAVID FREY, ESQ. dfrey@desmarais.com	18	1:20-cv-01106-LGS.
17	uncy e desinatus.com	19	This deposition is being held at
	Also Present:	20	multiple locations via
19 20	JONATHAN POPHAM, Videographer ~oOo~	21	videoconference. My name is Jonathan
21		22	Popham from Veritext and I am the
22		23	videographer. The court reporter is
23 24		24	Dawn Matera, also from Veritext.
25		25	I am not authorized to
	Page 3		Page 5
1		1 1	
		1	Lubin
2	STIPULATIONS	2	administer an oath. I am not related
3	STIPULATIONS IT IS HEREBY STIPULATED AND AGREED, by	2 3	administer an oath. I am not related to any party in this action, nor am I
		2 3 4	administer an oath. I am not related to any party in this action, nor am I financially interested in the outcome.
3	IT IS HEREBY STIPULATED AND AGREED, by	2 3	administer an oath. I am not related to any party in this action, nor am I
3 4	IT IS HEREBY STIPULATED AND AGREED, by and among counsel for the respective	2 3 4	administer an oath. I am not related to any party in this action, nor am I financially interested in the outcome.
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2 (Pages 2 - 5)

	Page 10		Page 12
1	Lubin	1	Lubin
2	before.	2	Q. And it says "Executed on
3	Q. Okay. Exhibit 2 is a notice of	3	October 16th, 2020," is that right?
4	deposition to Kewazinga pursuant to Rule	4	A. Right.
5	30(b)(1) just noticing the deposition	5	Q. And you actually did execute
6	today by you.	6	your declaration on October 16th, 2020,
7	A. Okay.	7	right?
8	Q. Do you have any questions about	8	A. Yes, I did.
9	this notice of deposition?	9	Q. So let me ask you a few
10	A. Let me just glance through it	10	questions about your declaration, okay?
11	for a moment.	11	A. Sure.
12	(Witness reviews document.)	12	Q. When did you first start
13	A. No, no questions.	13	working on your claim construction
14	Q. Thank you. And you understand	14	declaration, Exhibit 1 here, Dr. Lubin?
15	you're here today testifying on behalf of	15	MR. DESAI: Objection to form.
16	Kewazinga regarding the claim	16	A. When did I start can you
17	constructions in this case, right?	17	just be a little more specific on that?
18	A. Right.	18	Q. When did you start putting
19	Q. Okay. Let's turn back to	19	words on the page for your claim
20	Exhibit 1, your report, the first page of	20	construction declaration?
21	Exhibit 1 indicates that this is your	21	MR. DESAI: Same objection.
22	claim construction and expert report and	22	A. I did not put words on the page
23	declaration, right?	23	myself. They were drafted by Kewazinga.
24	A. Right.	24	They were drafted after extensive
25	Q. And on the very last page of	25	conversations between us, and I looked it
	D 41		
	Page 11		Page 13
1	Lubin	1	Lubin
1 2	Lubin this document you have your handwritten	1 2	Lubin over and saw that it met my
_	Lubin this document you have your handwritten signature on there, right?	2 3	Lubin over and saw that it met my specifications and I signed it.
2 3 4	Lubin this document you have your handwritten signature on there, right? A. Right.	2 3 4	Lubin over and saw that it met my specifications and I signed it. Q. When did you begin reviewing
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2 3 4 5 6 7	Lubin this document you have your handwritten signature on there, right? A. Right. MR. DESAI: Just note, clarify for the record, because I think this Exhibit 1 has the report and	2 3 4 5 6 7	Lubin over and saw that it met my specifications and I signed it. Q. When did you begin reviewing the patents in this case? A. I can check my notes if you'd like, but it was sometime after
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4 (Pages 10 - 13)

	Page 14		Page 16
1	Lubin	1	Lubin
2	A. Right.	2	all, that they understood my position,
3	Q. Had you seen the patents before	3	and once that was clear in conversation,
4	you began reviewing the patent for this	4	they made the draft and I reviewed it and
5	case?	5	signed it.
6	A. Had I seen which patents?	6	Q. You relied on conversations
7	Q. There are three patents at	7	with Kewazinga's attorneys to form your
8	issue in this case; is that right?	8	opinions in this case, true?
9	A. Yes.	9	MR. DESAI: Objection to form
10	Q. Had you seen any of those three	10	and mischaracterizes the testimony.
11	patents prior to your work on this case?	11	A. No, that's not true. They
12	A. No.	12	were it's not true.
13	Q. And I understand that you	13	Q. Why not?
14	signed your declaration on October 16th,	14	A. Because I am the expert and I
15	2020, but when did you finalize your	15	understand this material. And I was
16	opinions?	16	they were they understand patents, and
17	MR. DESAI: Objection to form.	17	so they were giving me, telling me what
18	A. It was shortly before signing.	18	was at stake, what were the issues. And
19	Q. If you had to estimate how much	19	I was giving my expert opinion on, you
20	before signing, what would you estimate?	20	know, on those issues. It was a fairly
21	MR. DESAI: Objection to form.	21	narrow conversation. This was about
22	THE WITNESS: Sorry.	22	claim constructions.
23	MR. DESAI: You can go ahead.	23	Q. How long were the conversations
24	A. It was around a day before I	24	that you had with Kewazinga's counsel?
25	signed.	25	MR. DESAI: Objection to form.
	Page 15		Page 17
1	Lubin	1	Lubin
2	Lubin Q. How long did you spend	2	Lubin A. I would say in the tens of
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Lubin Q. How long did you spend reviewing the draft declaration? MR. DESAI: Objection to form. A. I don't really recall. Q. You mentioned A. Some number of hours. Q. About five hours or ten hours? MR. DESAI: Objection. A. After it was probably two hours. Q. So you did not put words on the page yourself, they were drafted by Kewazinga after conversations with counsel. And you spent probably about two hours reviewing the draft, is that fair? MR. DESAI: Objection to form. A. The words were put on the page after very extensive conversations between myself and counsel. So it was not like I was glancing over them in a	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Lubin A. I would say in the tens of hours. Q. So less than 100 hours; is that right? A. Yes. I would say less than ten hours. Q. Did you make any revisions to the drafts that Kewazinga's counsel provided while you were drafting your opinions?  MR. DESAI: Objection to form. A. No. Q. Did anyone else revise your declaration? A. No. No. Q. Let's discuss the materials you reviewed in forming your opinions, okay? A. Sounds good. Q. All right. Exhibit E to your declaration is the joint claim construction and prehearing statement in
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5 (Pages 14 - 17)

	D 44		5 4
1	Page 22 Lubin	1	Page 24 Lubin
2	amount of work going on related to that.	2	right?
3	Q. Were you involved in the	3	A. Yes.
4	application for the Burt patent?	4	Q. The third patent is U.S. patent
5	A. No.	5	number 9,055,234, also known as the '234
6	Q. You mentioned that you were	6	patent, which is attached as Exhibit A to
7	familiar with the Burt patent from	7	your declaration; is that right?
8	earlier in your career. So about how	8	A. Yes.
9	long did you spend reviewing the Burt	9	Q. What, in your opinion, is novel
10	patent?	10	about the Kewazinga patent?
11	MR. DESAI: Objection to form.	11	MR. DESAI: Objection to form.
12	A. A couple of hours. Again, it's	12	A. That was not my assignment
13	a very hazy memory of how much I spent on	13	here. And I don't have an opinion about
14	one thing.	14	that at this time. All I was asked to do
15	Q. And to be clear, when I say		was give my expert opinion on those two
16	Burt patent, I mean U.S. patent number	16	claim constructions, which I did. So I
17	5,469,032, which is incorporated by	17	would have to review in much greater
18	reference in the '325 and '234 patent and	18	detail to give an answer to that one, I
19	attached as Exhibit F to your	19	am afraid.
20	declaration; is that right?	20	Q. Besides being asked to give
21	A. That's right.	21	your expert opinion on the two claim
22	MR. DESAI: I just want to	22	construction identified in your expert
23 24	clarify, because I think you misspoke	23	report, is there anything else included
25	or I think it came out wrong. It's 5,649,032.	24 25	in your assignment here?  MR. DESAI: Objection to form.
23	3,047,032.	23	WIK. DESTI. Objection to form.
1	Page 23	1	Page 25
1 2	Lubin	1 2	Lubin
2	Lubin MS. CHEN: Thank you, Mr. Desai.	2	Lubin A. I'm sorry, can you say that
2 3	Lubin MS. CHEN: Thank you, Mr. Desai. Q. So the Burt patent is U.S.	2 3	Lubin A. I'm sorry, can you say that again or in some other way?
2 3 4	Lubin MS. CHEN: Thank you, Mr. Desai.	2 3 4	Lubin A. I'm sorry, can you say that again or in some other way? Q. I will withdraw the question.
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		Page 46		Page 48
1	Lubin	1 age 40	1	Lubin
2	MR. DESAI: Objection to the		2	A. No.
3	form.		3	Q. Do you have a postgraduate
4	A. I arrived at that by reviewing		4	degree in computer engineering?
5	some of the materials in the patents and		5	A. No.
6	understanding what kinds of techniques		6	Q. Do you have one to two years of
7	were being used there and relating it		7	experience in the field of computer
8	back to my education and my previous		8	vision?
9	experience.		9	A. Yes, at least.
10	Q. Did you meet your definition in		10	Q. Do you have one to two years of
11	1998?		11	experience in the field of image
12	A. Yes, I did.		12	processing?
13	Q. So you still meet your		13	A. Yes, at least.
14	definition today, is that right?		14	Q. So you don't have a computer
15	A. I hope so. Yes.		15	engineering degree, true?
16	Q. Do you have a bachelor's degree		16	A. That's true.
	in computer science?		17	Q. I am going to introduce another
18	A. No, I don't.		18	exhibit on Exhibit Share.
19	Q. Do you have a bachelor's degree		19	(Exhibit 3, Dr. Keith Hannah's
20	in computer engineering?		20	original and supplemental declaration
21	A. I have a bachelor's degree in		21	submitted in connection with Microsoft
22	experimental psychology, which is, you		22	case, was so marked for
23	know, in this case pretty highly related		23	identification, as of this date.)
24	to the materials that we're talking		24	Q. I am introducing as Exhibit
25	about. So we can go down a list of all		25	number 3 Dr. Hannah's declaration in the
		Page 47		Page 49
		1 450 17		
1	Lubin	ruge 17	1	Lubin
1 2	Lubin the computer related fields that I do not	ruge 17	1 2	· · · · · · · · · · · · · · · · · · ·
_		Tage 17		Lubin
2	the computer related fields that I do not	Tuge II	2	Lubin Microsoft litigation. Please let me know
2 3	the computer related fields that I do not have a bachelor's degree in and I will	Tuge II	2 3	Lubin Microsoft litigation. Please let me know when you see it.
2 3 4	the computer related fields that I do not have a bachelor's degree in and I will respond appropriately to each one of	Tugo	2 3 4	Lubin Microsoft litigation. Please let me know when you see it. A. Okay.
2 3 4 5	the computer related fields that I do not have a bachelor's degree in and I will respond appropriately to each one of those.	Tugo II	2 3 4 5	Lubin Microsoft litigation. Please let me know when you see it. A. Okay. Q. You reviewed Dr. Hannah's
2 3 4 5 6	the computer related fields that I do not have a bachelor's degree in and I will respond appropriately to each one of those.  Q. Is your bachelor's degree in	Tuge 17	2 3 4 5 6	Lubin Microsoft litigation. Please let me know when you see it. A. Okay. Q. You reviewed Dr. Hannah's declaration, which is Exhibit 3, for this
2 3 4 5 6 7	the computer related fields that I do not have a bachelor's degree in and I will respond appropriately to each one of those.  Q. Is your bachelor's degree in experimental psychology equivalent to a	Tuge I/	2 3 4 5 6 7	Lubin Microsoft litigation. Please let me know when you see it. A. Okay. Q. You reviewed Dr. Hannah's declaration, which is Exhibit 3, for this case; is that right?
2 3 4 5 6 7 8	the computer related fields that I do not have a bachelor's degree in and I will respond appropriately to each one of those.  Q. Is your bachelor's degree in experimental psychology equivalent to a computer science or a computer	Tuge I/	2 3 4 5 6 7 8	Lubin Microsoft litigation. Please let me know when you see it.  A. Okay. Q. You reviewed Dr. Hannah's declaration, which is Exhibit 3, for this case; is that right?  A. Yes, I did. Q. And you said you generally agree with his opinions in this
2 3 4 5 6 7 8 9	the computer related fields that I do not have a bachelor's degree in and I will respond appropriately to each one of those.  Q. Is your bachelor's degree in experimental psychology equivalent to a computer science or a computer engineering degree?	Tuge I/	2 3 4 5 6 7 8 9	Lubin Microsoft litigation. Please let me know when you see it.  A. Okay. Q. You reviewed Dr. Hannah's declaration, which is Exhibit 3, for this case; is that right?  A. Yes, I did. Q. And you said you generally agree with his opinions in this declaration?
2 3 4 5 6 7 8 9 10	the computer related fields that I do not have a bachelor's degree in and I will respond appropriately to each one of those.  Q. Is your bachelor's degree in experimental psychology equivalent to a computer science or a computer engineering degree?  MR. DESAI: Objection to the form.  A. Equivalent in what way? What	Tuge II	2 3 4 5 6 7 8 9 10 11 12	Lubin Microsoft litigation. Please let me know when you see it.  A. Okay. Q. You reviewed Dr. Hannah's declaration, which is Exhibit 3, for this case; is that right?  A. Yes, I did. Q. And you said you generally agree with his opinions in this declaration?  A. Yeah, generally speaking, yes.
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1	Page 126 Lubin	1	Page 128 Lubin
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	without knowing other things about the	$\frac{1}{2}$	A. Yes.
3	cameras as well. Like their focal length	3	Q. So really what you mean is an
4	and what kind of lens it was and things	4	array of cameras is a set of multiple
5	like that. But if you fully	5	cameras each with a knowable relationship
6	characterized both cameras and you knew	6	to each other, is that fair?
7	where each of those cameras were pointing	7	MR. DESAI: Objection to form.
8	with however much precision you would	8	A. Well, you know, again, it's
9	need for a particular telepresence	9	getting back to the same issue of, you
10	application, then those, yes, those two	10	know, are you going it's not useful as
11	image sources would be considered an	11	an array until and unless you know that
12	array of cameras.	12	relationship. So it's knowable, and then
13	Now, if those two image sources	13	you obtain it and then you use it. So
14	don't, aren't, you know, don't capture	14	that's how I answer.
15	material that's fairly close by to each	15	Q. So an array of cameras does not
16	other, then it's hard to know how you	16	exist until you know the relationship
17	would use those outputs for navigating,	17	between the cameras, is that fair?
18	because the whole point of these patents	18	MR. DESAI: Objection to form.
19	is progressive views through an	19	A. I mean, that's almost a
20	environment.	20	philosophical question, isn't it. In
21	So progressive means that you	21	order to use it, you have to know the
22	are reasonably close from one view to the	22	relationship. So when you're capturing a
23	next.	23	new image, say when you're adding a new
24	Q. Can you tell me again what	24	camera to the array or you're moving a
25	"known relationship" means?	25	camera to create a new array element, you
			D 100
	Page 127		Page 129
1	Lubin	1	Lubin
2	Lubin MR. DESAI: Objection to form.	2	Lubin capture that image and you determine the
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2 3 4 5	Lubin MR. DESAI: Objection to form. A. It means knowing approximately, to whatever degree you need, knowing the orientation of the cameras relative to	2 3 4 5	Lubin capture that image and you determine the relationship between that camera and the previous ones, and that's how we view the rest of the purpose that is being put to
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	Page 146		Page 148
1	Lubin	1	Lubin
2	Do you see that?	2	construction of array of cameras is
3	A. Yes, I do.	3	applicable to the patent I discuss
4	Q. Do you agree that the claims	4	particular examples, embodiments within
5	require progressively different	5	the patent, that's true.
6	perspectives of the environment?	6	Q. In discussing how your
7	MR. DESAI: Objection to form.	7	construction of array of cameras is
8	A. Well, certainly there is a	8	applicable to the patent, you discussed
9	phrase in the claim that talks about a	9	examples, including what you refer to as
10	series of cameras having progressive	10	subarrays in the embodiments; is that
11	camera perspectives of the environment.	11	fair?
12	So it seems like a noncontroversial	12	A. Yes.
13	point.	13	Q. Does the word "subarrays"
14	Q. So the word strike that.	14	appear in any of the asserted patents?
15	So the phrase "array of	15	A. I don't believe so.
16	cameras" means something more than that,	16	Q. Does the term
17	right?	17	A. No, after you.
18	MR. DESAI: Objection to form.	18	Q. Does the term "subarrays"
19	A. It means something more than	19	appear in any of the claims of the
20	what?	20	asserted patents?
21	Q. Means something more than a	21	MR. DESAI: Objection to form.
22	series of cameras having progressively	22	A. I haven't done the word search,
23	different perspectives of the	23	but I am guessing that it doesn't.
24	environment?	24	But let me add at this point
25	MR. DESAI: Same objection.	25	that it is obvious to someone I
	Page 147		Page 149
1	Lubin	1	Lubin
2	A. It's a use of the array of	2	shouldn't say obvious, it is known to
3	cameras in this, for this claim. So it's		
4		3	someone skilled in the art that when you
5	not something that's required of the	3 4	•
1 3	not something that's required of the array of cameras. It's required for the		
6		4	have an array and you add elements to
1	array of cameras. It's required for the	4 5	have an array and you add elements to that array, that first array can be
6	array of cameras. It's required for the use of the array of cameras in this	4 5 6	have an array and you add elements to that array, that first array can be considered to be a subarray of the second
6 7 8 9	array of cameras. It's required for the use of the array of cameras in this claim.  Q. Okay. In your declaration you discussed subarrays, right?	4 5 6 7 8 9	have an array and you add elements to that array, that first array can be considered to be a subarray of the second one. So whether or not the term "subarray" is used here, that is, that's not material.
6 7 8	array of cameras. It's required for the use of the array of cameras in this claim.  Q. Okay. In your declaration you	4 5 6 7 8	have an array and you add elements to that array, that first array can be considered to be a subarray of the second one. So whether or not the term "subarray" is used here, that is, that's not material.  And in fact when you look at
6 7 8 9	array of cameras. It's required for the use of the array of cameras in this claim.  Q. Okay. In your declaration you discussed subarrays, right?  A. Yes.  Q. Your construction of the term	4 5 6 7 8 9	have an array and you add elements to that array, that first array can be considered to be a subarray of the second one. So whether or not the term "subarray" is used here, that is, that's not material.
6 7 8 9 10	array of cameras. It's required for the use of the array of cameras in this claim.  Q. Okay. In your declaration you discussed subarrays, right?  A. Yes.	4 5 6 7 8 9 10	have an array and you add elements to that array, that first array can be considered to be a subarray of the second one. So whether or not the term "subarray" is used here, that is, that's not material.  And in fact when you look at
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6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	array of cameras. It's required for the use of the array of cameras in this claim.  Q. Okay. In your declaration you discussed subarrays, right?  A. Yes.  Q. Your construction of the term "array of cameras" is based, in part, on your contention that the patent depicts subarrays; is that fair?  MR. DESAI: Objection to form.  A. You'll have to unpack that for me. Can you ask that as perhaps a simpler question?  Q. In explaining how you support strike that.  In explaining the evidence that supports your construction, you discuss	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	have an array and you add elements to that array, that first array can be considered to be a subarray of the second one. So whether or not the term "subarray" is used here, that is, that's not material.  And in fact when you look at Figure 11 with reference to Figure 1, you see that array 10, labeling that complete set of excentric rings in Figure 11, each of those rings is described as an array and item 10 is described in the entire set of those rings as an array. And so, you know, whether you want to call it an array of arrays or an array of subarrays, it's still the same it's the same thing.  And in fact in one example, in

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1	Page 170 Lubin	1	Page 172
1		$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	Lubin MR. DESAL Objection to form
$\begin{vmatrix} 2 \\ 3 \end{vmatrix}$	go off the record.  THE VIDEOGRAPHER: We are going	$\begin{vmatrix} 2 \\ 3 \end{vmatrix}$	MR. DESAI: Objection to form.  A. Well, let's look at, I believe
4	off the record at 3:29 p.m., this	4	it's Figure 12. There is that loop there
5	marks the end of video 4.	5	in Figure 12.
6	(Off the record.)	6	The control at item 1250, do
7	THE VIDEOGRAPHER: We are back	7	you basically, do you want a camera
8	on the record at 3:36 p.m.	8	arrays in a given diameter? Yes, then go
9	BY MS. CHEN:	9	back and add another array. If not, then
10	Q. Dr. Lubin, do you have any	10	image storage complete.
11	changes to make to your testimony from	11	Obviously at some point you're
12	before the break?	12	going to run out of room in your
13	A. No, I don't.	13	environment or you're going to, there is
14	Q. Turning back to your expert	14	going to be various stopping points that
15	report, which is Exhibit 1. Please turn	15	would cause you to stop. But, you know,
16	to paragraph 47.	16	theoretically, you could go on for a
17	A. Okay.	17	long, long time and have a very, very
18	Q. You see that your opinion is	18	large array. And the same rules would
19	that a person of ordinary skill in the	19	apply.
20	art that would understand that the term	20	Q. How do you know when step 12-10
21	"array of cameras" refers to "A	21	in Figure 12 is complete?
22	configuration of cameras wherein the	22	MR. DESAI: Objection to the
23	configuration can be created over time by	23	form.
24	moving cameras"; do you see that?	24	A. How would you know when that is
25	A. Yes, I do.	25	complete?
	Page 171		Page 173
1	Lubin	1	Lubin
2	Lubin Q. So the configuration can be	2	Lubin Q. Let me restate the question.
2 3	Lubin Q. So the configuration can be created over time, right?	2 3	Lubin Q. Let me restate the question. How do you know in Figure 12,
2 3 4	Lubin Q. So the configuration can be created over time, right? A. Yes.	2 3 4	Lubin Q. Let me restate the question. How do you know in Figure 12, step 12-10, when a cylindrical array of
2 3 4 5	Lubin Q. So the configuration can be created over time, right? A. Yes. Q. And there is no limit in your	2 3 4 5	Lubin Q. Let me restate the question. How do you know in Figure 12, step 12-10, when a cylindrical array of cameras around an environment has been
2 3 4 5 6	Lubin Q. So the configuration can be created over time, right? A. Yes. Q. And there is no limit in your construction on how much time is	2 3 4 5 6	Lubin Q. Let me restate the question. How do you know in Figure 12, step 12-10, when a cylindrical array of cameras around an environment has been situated?
2 3 4 5 6 7	Lubin Q. So the configuration can be created over time, right? A. Yes. Q. And there is no limit in your construction on how much time is available for the creation of that	2 3 4 5 6 7	Lubin Q. Let me restate the question. How do you know in Figure 12, step 12-10, when a cylindrical array of cameras around an environment has been situated? MR. DESAI: Same objection.
2 3 4 5 6 7 8	Lubin Q. So the configuration can be created over time, right? A. Yes. Q. And there is no limit in your construction on how much time is available for the creation of that configuration, correct?	2 3 4 5 6 7 8	Lubin Q. Let me restate the question. How do you know in Figure 12, step 12-10, when a cylindrical array of cameras around an environment has been situated? MR. DESAI: Same objection. A. I guess you would finish
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2 3 4 5 6 7 8 9 10 11 12	Lubin Q. So the configuration can be created over time, right? A. Yes. Q. And there is no limit in your construction on how much time is available for the creation of that configuration, correct?  MR. DESAI: Objection to form. A. That's correct. Q. The configuration could be created over a period of seconds, right?	2 3 4 5 6 7 8 9 10 11	Lubin Q. Let me restate the question. How do you know in Figure 12, step 12-10, when a cylindrical array of cameras around an environment has been situated? MR. DESAI: Same objection. A. I guess you would finish putting it there and then it would be situated. Maybe I am not understanding the question.
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	Page 178		Page 180
1	Lubin	1	Lubin
2	let me put another camera in there and	2	are, have a known relation to each other,
3	even by itself, have it, you know,	3	and, you know, that would be it.
4	re-traverse the path that it was supposed	4	Q. In your declaration, can you
5	to be on.	5	please turn to paragraph 48.
6	And that would count, too, as	6	A. Okay.
7	an element of that single array of	7	Q. You see paragraph 48 goes onto
8	cameras or, you know, of cameras being,	8	page 23, do you see that you cite the
9	of knowing when you had enough.	9	definition of "array" from Random House
10	I am just trying to give you	10	Webster's College Dictionary, 1991.
11	different examples that show that it's	11	A. Yes, I do.
12	not a question that you can ask	12	Q. Do you see that it says
13	generally I mean, that you can answer	13	strike that.
14	generally.	14	A. 1991.
15	Q. From a time perspective,	15	Q. Yes. 1991. Do you see that
16	whether you have an array of cameras	16	you opine your "construction is
17	depends on when the camera operator	17	consistent with the definition of 'array'
18	decides to stop moving the camera to	18	(i.e. 'regular order or arrangement')"?
19	different positions, right?	19	A. Yes.
20	MR. DESAI: Objection to form.	20	Q. What does it mean to have a
21	Asked and answered.	21	regular order or arrangement?
22	A. If you're not if you're not	22	MR. DESAI: Objection to form.
23	creating any more positions for that one	23	A. In this context it means that
24	camera, then you're done.	24	you can index your way through that array
25	Q. Is array of cameras one of	25	and, you know, find your way to different
1	Page 179 Lubin	1	Page 181 Lubin
1	Lubili	1	LAIDIN
1 7	those things where it depends on the use	_	
2	those things where it depends on the use	2	nodes of the array in a, you know,
3	and other factors, so you know it when	2 3	nodes of the array in a, you know, regular, fully specifiable process.
3 4	and other factors, so you know it when you see it?	2 3 4	nodes of the array in a, you know, regular, fully specifiable process.  So, you know, just looking at
3 4 5	and other factors, so you know it when you see it?  MR. DESAI: Objection to the	2 3 4 5	nodes of the array in a, you know, regular, fully specifiable process.  So, you know, just looking at array coordinates is the standard, most
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	Page 192		Daga 194
1	Page 182 Lubin	1	Page 184 Lubin
2	the views of the different array	2	on after I had clarified my view and
3	elements.	3	then they wrote it out. But it was my
4	Q. So in your opinion, two cameras	4	own view.
5	at any point in time could be an array of	5	I did not write those words
6	cameras if they have a known relationship	6	down. They were they were entered by
7	to one another?	7	someone else other than me into the
8	MR. DESAI: Objection to form.	8	document.
9	A. As long as they are known	9	Q. Did you develop your
10	relationship, yeah.	10	construction of the term "mosaicing"
11	But again, it doesn't make	11	before or after reviewing the patent?
12	sense to think about them unless	12	MR. DESAI: Object to the form.
13	there's you know, from the perspective	13	A. I developed it based on my
14	*	14	understanding of that term in my
15	to think about those two cameras unless	15	experience and as it would be understood
16	they contribute in some way to creating	16	by a layperson.
17	views through a navigable environment.	17	And then I confirmed that that
18	Q. Moving on to the next term,	18	was, you know, that that term applied
19	please turn to page 16 of your	19	after reviewing the patents in detail.
20	declaration.	20	Q. What do you understand
21	A. All right.	21	"mosaicing" in image processing to mean?
22	Q. Okay. Your opinion is that a	22	MR. DESAI: Objection to form.
23 24	person of skill in the art strike that.	23	A. I understand it to mean what I
25		24	said it means here. It's a process by
23	Your opinion is that a person	25	which you take multiple images, you align
1	Page 183 Lubin		Page 185
		1	Lubin
2		$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	Lubin them and then you compose them.
2 3	of ordinary skill in the art would	1 2 3	them and then you compose them.
3	of ordinary skill in the art would understand that the term "mosaicing"	2	them and then you compose them.  I like to think of it in terms
1	of ordinary skill in the art would understand that the term "mosaicing" refers to "Creating imagery assembled	2 3	them and then you compose them.  I like to think of it in terms of being as simple as that. You have a
3 4	of ordinary skill in the art would understand that the term "mosaicing"	2 3 4	them and then you compose them.  I like to think of it in terms of being as simple as that. You have a bunch of still photos that cover a
3 4 5	of ordinary skill in the art would understand that the term "mosaicing" refers to "Creating imagery assembled from a plurality of images or portions thereof, including an alignment process	2 3 4 5	them and then you compose them.  I like to think of it in terms of being as simple as that. You have a bunch of still photos that cover a particular area, and the alignment
3 4 5 6	of ordinary skill in the art would understand that the term "mosaicing" refers to "Creating imagery assembled from a plurality of images or portions	2 3 4 5 6 7	them and then you compose them.  I like to think of it in terms of being as simple as that. You have a bunch of still photos that cover a
3 4 5 6 7	of ordinary skill in the art would understand that the term "mosaicing" refers to "Creating imagery assembled from a plurality of images or portions thereof, including an alignment process and a composition process," right?	2 3 4 5 6 7	them and then you compose them.  I like to think of it in terms of being as simple as that. You have a bunch of still photos that cover a particular area, and the alignment process is taking the photos and changing
3 4 5 6 7 8	of ordinary skill in the art would understand that the term "mosaicing" refers to "Creating imagery assembled from a plurality of images or portions thereof, including an alignment process and a composition process," right?  A. Yes.  Q. Is your opinion based on the patent or what this term normally means?	2 3 4 5 6 7 8	them and then you compose them.  I like to think of it in terms of being as simple as that. You have a bunch of still photos that cover a particular area, and the alignment process is taking the photos and changing their orientation with respect to each
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3 4 5 6 7 8 9 10 11 12	of ordinary skill in the art would understand that the term "mosaicing" refers to "Creating imagery assembled from a plurality of images or portions thereof, including an alignment process and a composition process," right?  A. Yes. Q. Is your opinion based on the patent or what this term normally means?  MR. DESAI: Objection to form. A. It's based on my as before,	2 3 4 5 6 7 8 9	them and then you compose them.  I like to think of it in terms of being as simple as that. You have a bunch of still photos that cover a particular area, and the alignment process is taking the photos and changing their orientation with respect to each other, so that they, you know, align as well as possible.  The composition process, in that case, is taking them into place, to
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	of ordinary skill in the art would understand that the term "mosaicing" refers to "Creating imagery assembled from a plurality of images or portions thereof, including an alignment process and a composition process," right?  A. Yes.  Q. Is your opinion based on the patent or what this term normally means?  MR. DESAI: Objection to form.  A. It's based on my as before, when we were talking about array of cameras, it's based on what I understand that term to mean to a layperson, but, you know, checking for consistency with what I have seen in the patents, and that term, I believe, applies based on that further analysis.  Q. For your construction of the term "mosaicing," did you come up with the words that make up this construction?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	them and then you compose them.  I like to think of it in terms of being as simple as that. You have a bunch of still photos that cover a particular area, and the alignment process is taking the photos and changing their orientation with respect to each other, so that they, you know, align as well as possible.  The composition process, in that case, is taking them into place, to say. And then after you have affixed them in some way, then you have a mosaic, and you've performed mosaicing.  Q. Before September of 1998, what was your experience with mosaicing in image processing?  A. Mosaicing, I think that I had visited I think around that time we were doing some work with government image analysts who looked at aerial

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	D 014		D 016
1	Page 214 Lubin	1	Page 216 Lubin
2	Q. Do you agree that the Kewazinga	$\frac{1}{2}$	patent, you know, chooses to include
3	patents cite Burt to explain how mixing	3	this, this patent on mosaicing, you know,
4	may be accomplished by mosaicing?	4	for these purposes, I, you know, I don't
5	MR. DESAI: Objection to form.	5	think I can answer that at this time.
6	A. It presents one way of	6	Q. I am trying to understand the
7	navigating between camera outputs.	7	relevance of the Kewazinga patent's
8	Q. Are there other ways of	8	citation to Burt, in the context of the
9	navigating between camera outputs that	9	Kewazinga patent and the meaning of
10	are disclosed in the Kewazinga patent?	10	mosaicing.
11	MR. DESAI: Objection to form.	11	Can you explain your
12	A. I'm not sure. I would have to	12	understanding of what mosaicing is for in
13	look in detail throughout the patents to	13	the Kewazinga patent?
14	say one way or the other.	14	MR. DESAI: Objection to form.
15	Q. Here in column 17, what is the	15	A. I can certainly give a couple
16	purpose of the mixing that is	16	of examples of what it's used for. But
17	accomplished by mosaicing? Strike that.	17	again, I don't think I can give a
18	Here in column 17 of the '234	18	complete answer to that question. And I
19	patent, what is the purpose of the mixing	19	might forget something about why they are
20	that is accomplished by mosaicing?	20	using it.
21	MR. DESAI: Objection to form	21	Certainly, one, one reason they
22	and vague.	22	would want to use it is to make better
23	A. Well, let me read what it says.	23	transitions between one camera output and
24	"In another embodiment mixing	24	another. I don't want to say one way or
25	may be accomplished by mosaicing the	25	the other whether that is the only reason
	Page 215		Page 217
1	Lubin	1	Lubin
2	outputs of the intermediate cameras."		
		2	they would use it and that was not a part
3	So certainly, it's saying that	3	of what I was asked to do.
3 4	So certainly, it's saying that in some embodiments, mixing can be	3 4	of what I was asked to do.  Q. So as part of what you were
3 4 5	So certainly, it's saying that in some embodiments, mixing can be accomplished by mosaicing.	3 4 5	of what I was asked to do.  Q. So as part of what you were asked to do strike that.
3 4 5 6	So certainly, it's saying that in some embodiments, mixing can be accomplished by mosaicing.  So I think that's the extent to	3 4 5 6	of what I was asked to do.  Q. So as part of what you were asked to do strike that.  What were you asked to do?
3 4 5 6 7	So certainly, it's saying that in some embodiments, mixing can be accomplished by mosaicing. So I think that's the extent to which I can productively answer the	3 4 5 6 7	of what I was asked to do.  Q. So as part of what you were asked to do strike that.  What were you asked to do?  A. I was asked to opine on the
3 4 5 6 7 8	So certainly, it's saying that in some embodiments, mixing can be accomplished by mosaicing. So I think that's the extent to which I can productively answer the question without looking through	3 4 5 6 7 8	of what I was asked to do.  Q. So as part of what you were asked to do strike that.  What were you asked to do?  A. I was asked to opine on the claim construction on the definitions of
3 4 5 6 7 8 9	So certainly, it's saying that in some embodiments, mixing can be accomplished by mosaicing.  So I think that's the extent to which I can productively answer the question without looking through everything else in the patents.	3 4 5 6 7 8 9	of what I was asked to do.  Q. So as part of what you were asked to do strike that.  What were you asked to do?  A. I was asked to opine on the claim construction on the definitions of mosaicing and array of cameras in these
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	So certainly, it's saying that in some embodiments, mixing can be accomplished by mosaicing.  So I think that's the extent to which I can productively answer the question without looking through everything else in the patents.  Q. In the context of the patent, would you agree that mixing is describing the transition between images in the virtual environment?  MR. DESAI: Objection to form.  A. That's one way it can be used. I would not say it's necessarily the only way.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	of what I was asked to do.  Q. So as part of what you were asked to do strike that.  What were you asked to do?  A. I was asked to opine on the claim construction on the definitions of mosaicing and array of cameras in these patents.  Q. In developing your opinion on the claim construction on the definition of mosaicing, did you consider the purpose for which mosaicing is discussed in the Kewazinga patent?  MR. DESAI: Objection to form.  A. Yes, I did.
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	So certainly, it's saying that in some embodiments, mixing can be accomplished by mosaicing. So I think that's the extent to which I can productively answer the question without looking through everything else in the patents. Q. In the context of the patent, would you agree that mixing is describing the transition between images in the virtual environment? MR. DESAI: Objection to form. A. That's one way it can be used. I would not say it's necessarily the only way. To answer your next question, I think I would have to look through the patents to see if they describe other ways. This was not really my purview in	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	of what I was asked to do.  Q. So as part of what you were asked to do strike that.  What were you asked to do?  A. I was asked to opine on the claim construction on the definitions of mosaicing and array of cameras in these patents.  Q. In developing your opinion on the claim construction on the definition of mosaicing, did you consider the purpose for which mosaicing is discussed in the Kewazinga patent?  MR. DESAI: Objection to form.  A. Yes, I did.  Q. And what is the purpose for which mosaicing is discussed in the Kewazinga patent?  A. As I said, one of the purposes
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	So certainly, it's saying that in some embodiments, mixing can be accomplished by mosaicing. So I think that's the extent to which I can productively answer the question without looking through everything else in the patents. Q. In the context of the patent, would you agree that mixing is describing the transition between images in the virtual environment? MR. DESAI: Objection to form. A. That's one way it can be used. I would not say it's necessarily the only way. To answer your next question, I think I would have to look through the patents to see if they describe other ways. This was not really my purview in this task. I was asked to opine on the	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	of what I was asked to do.  Q. So as part of what you were asked to do strike that.  What were you asked to do?  A. I was asked to opine on the claim construction on the definitions of mosaicing and array of cameras in these patents.  Q. In developing your opinion on the claim construction on the definition of mosaicing, did you consider the purpose for which mosaicing is discussed in the Kewazinga patent?  MR. DESAI: Objection to form.  A. Yes, I did.  Q. And what is the purpose for which mosaicing is discussed in the Kewazinga patent?  A. As I said, one of the purposes is to is to create better transitions
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	So certainly, it's saying that in some embodiments, mixing can be accomplished by mosaicing. So I think that's the extent to which I can productively answer the question without looking through everything else in the patents. Q. In the context of the patent, would you agree that mixing is describing the transition between images in the virtual environment? MR. DESAI: Objection to form. A. That's one way it can be used. I would not say it's necessarily the only way. To answer your next question, I think I would have to look through the patents to see if they describe other ways. This was not really my purview in	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	of what I was asked to do.  Q. So as part of what you were asked to do strike that.  What were you asked to do?  A. I was asked to opine on the claim construction on the definitions of mosaicing and array of cameras in these patents.  Q. In developing your opinion on the claim construction on the definition of mosaicing, did you consider the purpose for which mosaicing is discussed in the Kewazinga patent?  MR. DESAI: Objection to form.  A. Yes, I did.  Q. And what is the purpose for which mosaicing is discussed in the Kewazinga patent?  A. As I said, one of the purposes

55 (Pages 214 - 217)

	Page 218		Page 220
1	Lubin	1	Lubin
2	the only reason that was being used.	2	agree that's the description of the
3	Q. You mentioned earlier that you	3	mosaicing process?
4	had come across the Burt patent before	4	MR. DESAI: Objection to form.
5	your work on this case, right?	5	A. Yes.
6	A. Yeah. I think Peter was very	6	Q. And that mosaicing process may
7	proud of him and I think gave a	7	not result in a perfectly mosaiced image;
8	presentation about it in my early days.	8	is that fair?
9	Q. What do you recall about this	9	MR. DESAI: Object to the form.
10	patent when you picked it up again for	10	A. So I see the Socratic vortex
11	this case?	11	that you're trying to suck me in here.
12	A. I don't know, not much. I	12	As I opined earlier, creating a
13	needed it to review it and remind myself	13	mosaic does not have to the objective
14	what was in it. That's my answer.	14	of that is not necessarily to create a
15	Q. Do you agree that when	15	seamless mosaic.
16	proofreading a document, that means the	16	So, yes, even if you're
17	act of proofreading the document?	17	mosaicing, it doesn't mean that you're
18	MR. DESAI: Objection. Vague.	18	attempting to create a seamless mosaic.
19	Foundation.	19	In some cases you would want the seams to
20	A. Do I agree that proofreading a	20	be more visible. So a more perfect
21	document means the act of proofreading	21	mosaic is not always a seamless mosaic.
22	the document?	22	Q. Do you agree that in the Burt
23	Q. Yes.	23	patent there is an alignment process and
24	A. The act of proofreading the	24	a composition process strike that.
25	document.	25	Do you agree that in the Burt
1	Page 219 Lubin	1	Page 221 Lubin
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$		$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	
$\begin{vmatrix} 2 \\ 3 \end{vmatrix}$	<ul><li>Q. I will rephrase the question.</li><li>A. Yeah.</li></ul>	$\frac{2}{3}$	patent, mosaicing is comprised of first an alignment process and second a
4	Q. Would you agree that when	4	composition process?
5		+	composition process:
		5	$\Lambda$ Vec
6	proofread the document?	5	A. Yes.  And you agree that in the
6	proofread the document?	6	Q. And you agree that in the
7	proofread the document?  MR. DESAI: Same objections.	6 7	Q. And you agree that in the second process, which is composition,
7 8	proofread the document?  MR. DESAI: Same objections.  A. Yeah. I guess so, yeah.	6 7 8	Q. And you agree that in the second process, which is composition, there is also a selection process and a
7 8 9	proofread the document?  MR. DESAI: Same objections.  A. Yeah. I guess so, yeah.  Q. And the goal of proofreading is	6 7 8 9	Q. And you agree that in the second process, which is composition, there is also a selection process and a combination process?
7 8 9 10	proofread the document?  MR. DESAI: Same objections.  A. Yeah. I guess so, yeah.  Q. And the goal of proofreading is to find and correct errors, would you	6 7 8 9 10	Q. And you agree that in the second process, which is composition, there is also a selection process and a combination process?  A. Yes. As described in the Burt
7 8 9 10 11	proofread the document?  MR. DESAI: Same objections.  A. Yeah. I guess so, yeah.  Q. And the goal of proofreading is to find and correct errors, would you agree?	6 7 8 9 10 11	Q. And you agree that in the second process, which is composition, there is also a selection process and a combination process?  A. Yes. As described in the Burt patent, yes.
7 8 9 10	proofread the document?  MR. DESAI: Same objections.  A. Yeah. I guess so, yeah.  Q. And the goal of proofreading is to find and correct errors, would you agree?  MR. DESAI: Same objections.	6 7 8 9 10	Q. And you agree that in the second process, which is composition, there is also a selection process and a combination process?  A. Yes. As described in the Burt patent, yes.  Q. And do you agree that the
7 8 9 10 11 12	proofread the document?  MR. DESAI: Same objections.  A. Yeah. I guess so, yeah.  Q. And the goal of proofreading is to find and correct errors, would you agree?  MR. DESAI: Same objections.  A. Yes, I do.	6 7 8 9 10 11 12	<ul> <li>Q. And you agree that in the second process, which is composition, there is also a selection process and a combination process?</li> <li>A. Yes. As described in the Burt patent, yes.</li> <li>Q. And do you agree that the composition process as described in Burt</li> </ul>
7 8 9 10 11 12 13	proofread the document?  MR. DESAI: Same objections.  A. Yeah. I guess so, yeah. Q. And the goal of proofreading is to find and correct errors, would you agree?  MR. DESAI: Same objections.  A. Yes, I do.	6 7 8 9 10 11 12 13	Q. And you agree that in the second process, which is composition, there is also a selection process and a combination process?  A. Yes. As described in the Burt patent, yes.  Q. And do you agree that the
7 8 9 10 11 12 13 14	proofread the document?  MR. DESAI: Same objections.  A. Yeah. I guess so, yeah.  Q. And the goal of proofreading is to find and correct errors, would you agree?  MR. DESAI: Same objections.  A. Yes, I do.  Q. And even after proofreading a	6 7 8 9 10 11 12 13 14	Q. And you agree that in the second process, which is composition, there is also a selection process and a combination process?  A. Yes. As described in the Burt patent, yes.  Q. And do you agree that the composition process as described in Burt is also a requirement of the Kewazinga patent?
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7 8 9 10 11 12 13 14 15 16 17 18	proofread the document?  MR. DESAI: Same objections.  A. Yeah. I guess so, yeah. Q. And the goal of proofreading is to find and correct errors, would you agree?  MR. DESAI: Same objections.  A. Yes, I do. Q. And even after proofreading a document and finding and correcting some errors, there might still be errors, right?  MR. DESAI: Objection to form.	6 7 8 9 10 11 12 13 14 15 16 17	Q. And you agree that in the second process, which is composition, there is also a selection process and a combination process?  A. Yes. As described in the Burt patent, yes.  Q. And do you agree that the composition process as described in Burt is also a requirement of the Kewazinga patent?  MR. DESAI: Objection to form.  A. I don't know. That's a patent question, not a claim construction
7 8 9 10 11 12 13 14 15 16 17 18	proofread the document?  MR. DESAI: Same objections.  A. Yeah. I guess so, yeah. Q. And the goal of proofreading is to find and correct errors, would you agree?  MR. DESAI: Same objections.  A. Yes, I do. Q. And even after proofreading a document and finding and correcting some errors, there might still be errors, right?  MR. DESAI: Objection to form.  A. Yes.	6 7 8 9 10 11 12 13 14 15 16 17 18	Q. And you agree that in the second process, which is composition, there is also a selection process and a combination process?  A. Yes. As described in the Burt patent, yes.  Q. And do you agree that the composition process as described in Burt is also a requirement of the Kewazinga patent?  MR. DESAI: Objection to form.  A. I don't know. That's a patent question, not a claim construction question, in my opinion.
7 8 9 10 11 12 13 14 15 16 17 18 19 20	proofread the document?  MR. DESAI: Same objections.  A. Yeah. I guess so, yeah. Q. And the goal of proofreading is to find and correct errors, would you agree?  MR. DESAI: Same objections.  A. Yes, I do. Q. And even after proofreading a document and finding and correcting some errors, there might still be errors, right?  MR. DESAI: Objection to form.  A. Yes. Q. So in this example, the word	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. And you agree that in the second process, which is composition, there is also a selection process and a combination process?  A. Yes. As described in the Burt patent, yes.  Q. And do you agree that the composition process as described in Burt is also a requirement of the Kewazinga patent?  MR. DESAI: Objection to form.  A. I don't know. That's a patent question, not a claim construction question, in my opinion.  Q. Do you agree that the term
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	proofread the document?  MR. DESAI: Same objections.  A. Yeah. I guess so, yeah. Q. And the goal of proofreading is to find and correct errors, would you agree?  MR. DESAI: Same objections.  A. Yes, I do. Q. And even after proofreading a document and finding and correcting some errors, there might still be errors, right?  MR. DESAI: Objection to form.  A. Yes. Q. So in this example, the word "proofreading" is a description of the	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. And you agree that in the second process, which is composition, there is also a selection process and a combination process?  A. Yes. As described in the Burt patent, yes.  Q. And do you agree that the composition process as described in Burt is also a requirement of the Kewazinga patent?  MR. DESAI: Objection to form.  A. I don't know. That's a patent question, not a claim construction question, in my opinion.  Q. Do you agree that the term "mosaicing" is used in the claim term of
7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	proofread the document?  MR. DESAI: Same objections.  A. Yeah. I guess so, yeah. Q. And the goal of proofreading is to find and correct errors, would you agree?  MR. DESAI: Same objections.  A. Yes, I do. Q. And even after proofreading a document and finding and correcting some errors, there might still be errors, right?  MR. DESAI: Objection to form.  A. Yes. Q. So in this example, the word "proofreading" is a description of the process, right?	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	Q. And you agree that in the second process, which is composition, there is also a selection process and a combination process?  A. Yes. As described in the Burt patent, yes.  Q. And do you agree that the composition process as described in Burt is also a requirement of the Kewazinga patent?  MR. DESAI: Objection to form.  A. I don't know. That's a patent question, not a claim construction question, in my opinion.  Q. Do you agree that the term "mosaicing" is used in the claim term of the Kewazinga patent?

56 (Pages 218 - 221)

1	Page 230 Lubin	1	Page 232
1		1	Lubin
$\begin{vmatrix} 2 \\ 3 \end{vmatrix}$	be almost completely or completely overlapped and still have mosaicing. And	2 3	contiguous and do not have any overlap, can they be mosaic?
Ι.	if you have other ways of knowing the	4	MR. DESAI: Objection to form.
5	relation of the views to each other, they	5	Asked and answered.
6	could even be separated by some distance.	6	A. Yeah, I answered that. Yes, as
7	So, you know, in a you know,	7	long as you have some way of knowing the
8	the analogy there is to a mosaic that you	8	relationship between those two views, and
9	see in a museum, where there is some	9	you can, you know, put them in your
10	tiles that are missing, but you still get	10	virtual environment, such that they are
11	an overall sense of the view of that	11	in the right place.
12	mosaic, but, you know, there is	12	Q. Is it your opinion that the
13	separations between the views.	13	patent doesn't refer to the output of the
14	So there is no I don't	14	cameras in the context of mosaicing?
15	believe there is any specific requirement	15	MR. DESAI: Objection to form.
16	on the degree of overlap between images	16	A. It certainly does, but it also
17	in order to effect mosaicing.	17	refers to other things, such as graphical
18	Q. If two images overlap, can they	18	imagery and let me look up the exact
19	still be contiguous?	19	words.
20	MR. DESAI: Objection to form.	20	Certainly, there can be camera
21	A. Contiguous to me means they are	21	outputs, but there are also additional
22	not overlapping, that they are just	22	source outputs which include, and I
23	against each other. That is not	23	quote, "computer graphic imagery, virtual
24	really well, A, I'm not sure where	24	world camera views and virtual world grid
25	this is going, and B, it's not I don't	25	data, virtual world imagery, virtual
	Page 231		Page 233
1	Lubin	1	Lubin
2	believe it is within the scope of what I	2	objects, and their grid positioning data,
3	was asked to opine about.	3	applets, sprites, avatars," et cetera.
4	Q. I am trying to understand what	4	So you can mosaic anything that
5	images have the potential to be mosaic	5	can be placed into the world, and that
6	together and whether those images must be	6	does not involve just camera outputs.
7	contiguous or whether they must overlap.	7	Q. And could you point me to where
8 9	Do you have an opinion on that?	8	you were reading to just now, Dr. Lubin?
		0	A I'm corry Wall I was reading
10	MR. DESAI: Object to the form.	10	A. I'm sorry. Well, I was reading from my declaration, but it is the '234
10	Asked and answered.	10	from my declaration, but it is the '234
11	Asked and answered.  A. I already answered that	10 11	from my declaration, but it is the '234 patent at 12, 39 to 13, 2.
11 12	Asked and answered.  A. I already answered that  question. There is no requirement. And	10 11 12	from my declaration, but it is the '234 patent at 12, 39 to 13, 2.  Q. And that was discussed at what
11 12 13	Asked and answered.  A. I already answered that  question. There is no requirement. And I believe I just said that, there is no	10 11 12 13	from my declaration, but it is the '234 patent at 12, 39 to 13, 2.  Q. And that was discussed at what paragraph at your declaration, Dr. Lubin?
11 12 13 14	Asked and answered.  A. I already answered that question. There is no requirement. And I believe I just said that, there is no requirement that they be in any	10 11 12 13 14	from my declaration, but it is the '234 patent at 12, 39 to 13, 2.  Q. And that was discussed at what paragraph at your declaration, Dr. Lubin?  A. That was at paragraph 46.
11 12 13	Asked and answered.  A. I already answered that  question. There is no requirement. And I believe I just said that, there is no	10 11 12 13	from my declaration, but it is the '234 patent at 12, 39 to 13, 2.  Q. And that was discussed at what paragraph at your declaration, Dr. Lubin?
11 12 13 14 15	Asked and answered.  A. I already answered that  question. There is no requirement. And I believe I just said that, there is no requirement that they be in any particular relationship to each other.	10 11 12 13 14 15	from my declaration, but it is the '234 patent at 12, 39 to 13, 2.  Q. And that was discussed at what paragraph at your declaration, Dr. Lubin?  A. That was at paragraph 46.  Q. Is mosaicing different strike that.
11 12 13 14 15 16	Asked and answered.  A. I already answered that question. There is no requirement. And I believe I just said that, there is no requirement that they be in any particular relationship to each other. You know, there is no	10 11 12 13 14 15 16	from my declaration, but it is the '234 patent at 12, 39 to 13, 2.  Q. And that was discussed at what paragraph at your declaration, Dr. Lubin?  A. That was at paragraph 46.  Q. Is mosaicing different
11 12 13 14 15 16 17	Asked and answered.  A. I already answered that question. There is no requirement. And I believe I just said that, there is no requirement that they be in any particular relationship to each other. You know, there is no requirement that they overlap a certain	10 11 12 13 14 15 16 17	from my declaration, but it is the '234 patent at 12, 39 to 13, 2.  Q. And that was discussed at what paragraph at your declaration, Dr. Lubin?  A. That was at paragraph 46. Q. Is mosaicing different strike that.  Is the process of mosaicing
11 12 13 14 15 16 17 18	Asked and answered.  A. I already answered that question. There is no requirement. And I believe I just said that, there is no requirement that they be in any particular relationship to each other. You know, there is no requirement that they overlap a certain amount or at all or they can overlap	10 11 12 13 14 15 16 17 18	from my declaration, but it is the '234 patent at 12, 39 to 13, 2.  Q. And that was discussed at what paragraph at your declaration, Dr. Lubin?  A. That was at paragraph 46. Q. Is mosaicing different strike that.  Is the process of mosaicing different when you're using printed
11 12 13 14 15 16 17 18 19	Asked and answered.  A. I already answered that question. There is no requirement. And I believe I just said that, there is no requirement that they be in any particular relationship to each other.  You know, there is no requirement that they overlap a certain amount or at all or they can overlap completely or a little bit, or they could	10 11 12 13 14 15 16 17 18 19	from my declaration, but it is the '234 patent at 12, 39 to 13, 2.  Q. And that was discussed at what paragraph at your declaration, Dr. Lubin?  A. That was at paragraph 46. Q. Is mosaicing different strike that.  Is the process of mosaicing different when you're using printed photograph in analog form versus digital
11 12 13 14 15 16 17 18 19 20 21 22	Asked and answered.  A. I already answered that question. There is no requirement. And I believe I just said that, there is no requirement that they be in any particular relationship to each other.  You know, there is no requirement that they overlap a certain amount or at all or they can overlap completely or a little bit, or they could be edge to edge or they could have some distance between them. As long as you have a way of determining, you have a	10 11 12 13 14 15 16 17 18 19 20 21 22	from my declaration, but it is the '234 patent at 12, 39 to 13, 2.  Q. And that was discussed at what paragraph at your declaration, Dr. Lubin?  A. That was at paragraph 46. Q. Is mosaicing different strike that.  Is the process of mosaicing different when you're using printed photograph in analog form versus digital photograph?  MR. DESAI: Objection to form. A. There is lots of differences in
11 12 13 14 15 16 17 18 19 20 21 22 23	Asked and answered.  A. I already answered that question. There is no requirement. And I believe I just said that, there is no requirement that they be in any particular relationship to each other. You know, there is no requirement that they overlap a certain amount or at all or they can overlap completely or a little bit, or they could be edge to edge or they could have some distance between them. As long as you have a way of determining, you have a known relation between those views, then	10 11 12 13 14 15 16 17 18 19 20 21 22 23	from my declaration, but it is the '234 patent at 12, 39 to 13, 2.  Q. And that was discussed at what paragraph at your declaration, Dr. Lubin?  A. That was at paragraph 46. Q. Is mosaicing different strike that.  Is the process of mosaicing different when you're using printed photograph in analog form versus digital photograph?  MR. DESAI: Objection to form.  A. There is lots of differences in how you would deal with, you know, analog
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	Page 238		Page 240
1	Lubin	1	Lubin
2	two, two cameras that were creating those	2	symbol that sort of looks like a little
3	two images, it would be probably	3	mini little mini icon or something.
4	impossible to mosaic them in any	4	That's an older term, I believe.
5	meaningful way, nor would you want to	5	Q. Is inserting sprites a
6	because there is nothing in any of them.	6	mosaicing process?
7	So, you know, there is examples	7	MR. DESAI: Objection to form.
8	like that. I am sure I could come up	8	A. Putting a sprite into a mosaic
9	with other, other degenerate cases.	9	would be considered a part of the
10	Q. Would it be a mosaic to take	10	mosaicing process, yes.
11	two unrelated photographs and tape them	11	Q. How so?
12	together?	12	A. Well, I go back to what I read
13	MR. DESAI: Objection to form.	13	before on paragraph 46, mosaicing camera
14	A. From the perspective of these	14	outputs with additional source output
15	patents, it wouldn't make any sense to do	15	and again this is from '234, line 12, 39
16	that. I can think of artistic uses of	16	to 15, 2 encompass computer graphic
17	mosaics where you would want to tape	17	imagery, virtual objects and their grid
18	together images that, on the surface,	18	positioning data. So in other words,
19	that didn't have anything to do with each	19	numbers, alphanumeric information.
20	other. But there may be some reason to	20	So, yeah, a mosaic can
21	do that.	21	incorporate non-items that are clearly
22	But, you know, from the	22	not image based, but that help to inform
23	perspective of an image-based mosaic to	23	the meaning of the mosaic or to help the
24	be used, where any, I think, imaginable	24	viewer or user of the mosaic get a better
25	telepresence application, you would	25	sense of what is there, or any kind of
	Page 239		Page 241
1	Lubin	1	Lubin
2	Lubin want I can't think of telepresence	2	Lubin navigational aid or informational aid
	Lubin want I can't think of telepresence applications where you would want to		Lubin navigational aid or informational aid about the mosaic can be incorporated into
2 3 4	Lubin want I can't think of telepresence applications where you would want to well, I guess you can, because if you	2 3 4	Lubin navigational aid or informational aid about the mosaic can be incorporated into the mosaic.
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2 3 4 5 6 7	Lubin want I can't think of telepresence applications where you would want to well, I guess you can, because if you have an image that's some graphic element that you want to put in the mosaic at a certain point, just as an	2 3 4 5 6 7	Lubin navigational aid or informational aid about the mosaic can be incorporated into the mosaic. Q. If I have a photo of a person smiling and I put a smiley face sticker on that person's smiley face, would that
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